

Title (en)  
POLYMERIC HAIR DYES

Title (de)  
POLYMERISCHE HAARFÄRBEMITTEL

Title (fr)  
COLORANTS CAPILLAIRES POLYMERES

Publication  
**EP 2235115 A1 20101006 (EN)**

Application  
**EP 09702426 A 20090107**

Priority  
• EP 2009050098 W 20090107  
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Abstract (en)  
[origin: WO2009090125A1] Disclosed are polymeric dye of formula (1a), (1b), (1c), A and B, independently from each other represent a polymer backbone; X1 and X2 independently from each other are a linkage group selected from -C1-C30alkylene- or -C2-C12alkenylene-, which is interrupted and/or terminated at one or both ends by one or more than one -S-, -N-, -N=, -N(R5)-, -S(O)-, -SO2-, -(CH2CH2-O)1-5-, -(CH2CH2CH2-O)1-5-, -C(O)-, -C(O)O-, -OCO-, (II), -CON(R1)-, -C(NR1R2)2-, -(R1)NC(O)-, -C(S)R1-; or an optionally substituted, saturated or unsaturated, fused or non-fused aromatic or nonaromatic (heterocyclic) bivalent radical optionally comprising at least one heteroatom; a saturated or unsaturated, fused or non-fused aromatic or nonaromatic bivalent radical comprising at least one heteroatom, which is optionally substituted by C1-C30alkyl, C1-C30alkoxy, C2-C12alkenyl, C5-C10aryl, C5-C10cycloalkyl, C1-C10alkyl(C5-C10arylene), hydroxy or halogen; R1 and R2 independently from each other are hydrogen; unsubstituted or substituted, straight-chain or branched, monocyclic or polycyclic, interrupted or uninterrupted C1- C14alkyl; C2-C14alkenyl; C6-C10aryl; C6-C10aryl-C1-C10alkyl; or C5-C10alkyl(C5-C10aryl); Y1 and Y2 independently from each other are a residue of an organic dye; or hydrogen; wherein at least one of Y1 and Y2 is a residue of an organic dye; An1, An2 and An3, independently from each other are an anion; a and b independently from each other are a number from 1 to 3; m is a number from 0 to 5000; n is a number from 0 to 5000; and p is a number from 1 to 5000; wherein the sum of m + n + p = 3. The dyes are distinguished by their depth of shade and their good fastness properties to washing, such as, for example, fastness to light, shampooing and rubbing.

IPC 8 full level  
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CPC (source: EP KR US)  
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